Total No. of Questions :10]

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Roll No .....

# **CS - 604**

## **B.E. VI Semester**

Examination, December 2012

## **Computer Networking**

Time: Three Hours

Maximum Marks: 100 M

Minimum Pass Marks:35

Note: Attempt One question from each unit.
All questions carry equal marks.

#### **UNITI**

- 1. (a) What is the principal difference between connectionless communication and connection oriented communication?
  - (b) Consider 2<sup>n</sup>-1 MPs connected by the following topologies
    - a) Star
    - b) Ring
    - c) Complete interconnection

for each give the no of hoPs needed for the average IMP-IMP Packet.

OR

- 2. (a) Explain the OSI Model in detail.
  - (b) What is computer network and how it is different from distributed system?

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### UNIT II

		UNITI	
3	. (a	) Explain Goback N Protocell in detail.	10
	(b	A channel has bitrate of 4 KbPs and propagation of 20 msec. For what range of frame size does stop a	lelay of nd wait
		give an efficiency of at least 50%.	10
		OR	
4.	(a)	Write short note on high level data link control pro	otocell.
			10
	(b)	Explain 1 bit sliding window protocell.	10
		UNIT III	
5.	(a)	What is the difference between slotted ALOHA an	d Pure
		ALOHA?	10
	(b)	How does CSMA/CD differ from CSMA/CA?	10
		OR	
6.	(a)	Compare a piconet and Scattering.	10
	(b)	Write short note on FDDI Protocells.	10
		UNIT IV	
7.	(a)	What is the difference between unicast routing and	Multi
		cast routing?	10
	(b)	Write the difference between IPV <sub>4</sub> and IPV <sub>6</sub> .	10
		OR	
8.	(a)	Explain Dijkstra algorithm with example.	10
	(b)	Differentiate between congestion control and	flow
		control.	10

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#### **UNIT V**

- 9. (a) Explain the main features of transmission control protocell.
  - (b) What is network security and write the aspects of network security?

OR

10. Write short note (any 2)

20

- (a) Digital Signature.
- (b) ATM
- (c) Cryptography
- (d) Finite State Machine.

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